

PTO Form 1449 (List of Prior Art Cited by Applicant)

FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.		SERIAL NO. <div style="text-align: right; font-size: 1.2em;">08/ 884,680</div>	
LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT <div style="text-align: right; font-size: 1.2em;">ALEKSANDR L. YUFA</div>			
				FILING DATE		GROUP <div style="text-align: right; font-size: 1.2em;">2877</div>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA		3 5 0 8 8 3 0	04.28.70	HOPKINS	356/338	250/399.11	
AB		3 6 1 4 2 3 1	10.19.71	SHAW	356/336	250/574	
AC		3 6 7 8 4 8 7	07.18.72	LUDEWIG	356/37	340/307	
AD		3 7 1 0 2 7 9	01.09.73	ASHKIN	250/281	250/251	
AE		3 7 9 7 9 3 7	03.19.74	SHOFNER	356/336	250/564	
AF		3 8 1 9 9 4 0	06.25.74	LAWS	250/227.11	250/578	
AG		3 8 3 5 3 1 5	09.12.74	GRAVITT	250/218	356/343	
AH		3 8 4 0 3 0 4	10.08.74	HIRAFUSHI	356/436	356/246	
AI		3 8 5 0 5 2 5	11.26.74	KAYE	356/73	356/222	
AJ		3 8 5 1 1 6 9	11.04.74	FAXVOG	250/222	250/574	
AK		3 9 1 4 0 5 8	10.21.75	KNAPP	356/427	356/335	

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION
								YES NO
AL		1 3 3 5 4 6 6	10.21.73	GREAT BRITAIN	356/338	G01N21/49	G1B	
AM		2 0 4 2 1 6 6	09.04.80	GREAT BRITAIN	356/336	G01N15/02	G1A	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
AR		see page 9
		see page 9
AS		see page 9
		see page 9

EXAMINER <div style="text-align: right; font-size: 1.2em;">Pham, H</div>	DATE CONSIDERED <div style="text-align: right; font-size: 1.2em;">4/7/98</div>
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				FILING DATE		GROUP <u>2877</u>			
U.S. PATENT DOCUMENTS									
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
AA	3	932762	01.13.76	MOSEK	250/574	250/22728			
AB	3	947982	03.02.76	KNOLLENBERG	377/54	382/323			
AC	3	946239	03.23.76	SALZMAN	356/39	250/461.2			
AD	3	984786	10.05.76	PIKE	356/246	372/54			
AE	3	985441	10.12.76	SCHOEFFEL	356/246	356/310			
AF	3	989381	11.21.76	FULWAYLER	356/39	356/338			
AG	4	017186	04.12.77	SHOFNER	356/342	250/574			
AH	4	045125	08.30.77	FARGAS	359/585	351/44			
AI	4	070113	01.24.78	FRAZER	356/343	250/214			
AJ	4	124302	11.07.78	KUZMIN	356/440	250/573			
AK	4	132894	01.02.79	YULE	250/435	73/28.05			
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
								YES	NO
AL	2	261949	11.27.91	GREAT BRITAIN		G01N21/75	G1B		
AM	2	264556	02.21.92	GREAT BRITAIN	356/556	G01N15/02	G1A		
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
AR	<u>see page 9</u>								
	<u>see page 9</u>								
AS	<u>see page 10</u>								
	<u>see page 10</u>								
EXAMINER <u>Pham, H</u>					DATE CONSIDERED <u>4/7/98</u>				
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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT ALEKSANDR L. YUFA			
				FILING DATE		GROUP 2877	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	4140395	02.20.79	KREIKEBAUM	356/336	250/574		
AB	4150380	04.17.79	KOPP	382/133	250/550		
AC	4173415	11.06.79	WYATT	356/336	250/584		
AD	4178103	12.06.79	WALLACE	356/336	356/343		
AE	4188121	02.27.80	HIRLEMAN	356/336	356/338		
AF	4188543	02.12.80	BRUSTING	356/336	250/574		
AG	4189236	02.19.80	HOGG	356/317	250/461.2		
AH	4200802	04.29.80	SALZMAN	356/343	250/461.2		
AI	4224551	09.23.80	LIEBEGOTT	313/323	356/237		
AJ	4245910	01.20.81	KÄLANDER	356/338	250/574		
AK	4273443	06.16.81	HOGG	356/343	250/574		

FOREIGN PATENT DOCUMENTS								
DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION		
						YES	NO	
AL	3344122	06.20.85	GERMANY	356/336	G01N15/02		X	
AM	3510363	09.25.86	GERMANY	356/336	G01N15/02		X	

OTHER PRIOR ART <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>		
AR		see page 10
		see page 10
AS		see page 10
		see page 10

EXAMINER <i>Pham, H</i>	DATE CONSIDERED 4/7/98
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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT <u>ALEKSANDR L. YUFA</u>				
				FILING DATE GROUP <u>2877</u>				
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
AA	<u>4 2 7 4 7 4 5</u>	<u>06.23.81</u>	<u>TAKAHASHI</u>	<u>356/427</u>	<u>250/574</u>			
AB	<u>4 2 8 1 9 2 4</u>	<u>08.04.81</u>	<u>AUER</u>	<u>356/73</u>	<u>250/461.2</u>			
AG	<u>4 3 1 1 3 8 7</u>	<u>01.19.82</u>	<u>De MEY</u>	<u>356/410</u>	<u>356/318</u>			
AD	<u>4 3 4 8 1 0 7</u>	<u>09.07.82</u>	<u>LEIF</u>	<u>356/72</u>	<u>356/317</u>			
AE	<u>4 3 8 7 9 9 3</u>	<u>06.14.83</u>	<u>ADRIAN</u>	<u>356/336</u>	<u>356/28</u>			
AF	<u>4 4 2 0 2 5 6</u>	<u>12.13.83</u>	<u>FLADDA</u>	<u>356/336</u>	<u>250/565</u>			
AG	<u>4 4 2 2 7 6 1</u>	<u>12.27.83</u>	<u>FROMMER</u>	<u>356/338</u>	<u>356/246</u>			
AH	<u>4 4 2 9 9 9 5</u>	<u>02.07.84</u>	<u>GOULAS</u>	<u>356/343</u>	<u>356/336</u>			
AI	<u>4 4 1 9 0 3 8</u>	<u>10.23.84</u>	<u>GAST</u>	<u>250/343</u>	<u>250/353</u>			
AJ	<u>4 5 2 3 8 4 1</u>	<u>06.18.85</u>	<u>BRUSTING</u>	<u>356/73</u>	<u>356/343</u>			
AK	<u>4 5 7 1 0 7 9</u>	<u>02.18.86</u>	<u>KNOLLENBERG</u>	<u>356/336</u>	<u>356/339</u>			
FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
							YES	NO
AL	<u>4 2 1 5 9 0 8</u>	<u>11.18.93</u>	<u>GERMANY</u>	<u>356/336</u>	<u>G01N15/02</u>			X
AM	<u>4 2 2 8 3 8 8</u>	<u>03.03.94</u>	<u>GERMANY</u>	<u>356/336</u>	<u>G01N15/02</u>			X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
AR	<u>see page 11</u>							
AS	<u>see page 11</u>							
EXAMINER <u>Mummt</u>				DATE CONSIDERED <u>4/7/98</u>				
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				FILING DATE		GROUP 2877	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
—	AA	4 5 7 3 7 9 6	03.04.86	MARTIN	356/318	356/343	—
—	AB	4 6 0 6 6 3 6	08.19.86	MONIN	356/338	356/318	—
—	AC	4 6 8 0 9 7 7	07.21.87	CONERO	356/338	604/253	—
—	AD	4 7 2 4 3 1 3	02.09.88	FRENCH	250/214.1	356/343	—
—	AE	4 7 2 8 1 9 0	03.01.88	KNOLLENBERG	356/336	250/574	—
—	AF	4 7 3 9 1 7 7	04.19.88	BORDEN	250/574	356/338	—
—	AG	4 7 4 6 2 1 5	05.24.88	GROSS	356/246	250/576	—
—	AH	4 7 8 1 4 5 9	11.01.88	SUZUKI	356/335	356/73	—
—	AI	4 7 8 3 5 9 9	11.08.88	BORDEN	250/574	356/341	—
—	AJ	4 7 9 2 1 9 9	12.20.88	BORDEN	356/37	356/338	—
—	AK	4 7 9 8 4 6 5	01.17.89	KNOLLENBERG	356/336	356/343	—

FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
—	AL	4 6 6 6 2 1	12.19.86	JAPAN	356/336	G01N15/02		YES	NO
—	AM	5 3 1 9 3 4	04.09.88	JAPAN		G01N1/24			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
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	AS		—
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LIST OF PRIOR ART CITED BY APPLICANT <i>(Use several sheets if necessary)</i>				APPLICANT <u>ALEKSANDR L. YUFA</u>			
				FILING DATE		GROUP <u>2872</u>	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	4 8 0 4 8 5 3	02.14.89	BORDEN	250/574	356/338		
AB	4 8 2 5 0 9 4	04.25.89	BORDEN	250/573	356/338		
AC	4 8 4 2 4 0 6	06.27.89	Von BARGEN	359/86	356/338		
AD	4 8 7 1 2 4 9	10.14.89	WATSON	356/73	356/336		
AE	4 8 8 7 7 2 1	12.19.89	MARTIN	209/579	356/72		
AF	4 8 9 3 9 2 8	01.16.90	KADLLENBERG	356/343	356/338		
AG	4 8 9 6 0 4 8	01.29.90	BORDEN	250/574	356/339		
AH	4 9 4 2 3 0 5	07.17.90	SOMMER	250/574	356/343		
AI	4 9 4 3 1 5 9	07.24.90	OETLIKER	356/73	356/338		
AJ	4 9 8 4 8 8 9	01.15.91	SOMMER	356/339	356/336		
AK	5 0 1 1 2 8 6	04.30.91	PETRALLI	356/343	356/338		

FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
							YES	NO
AL	5 3 9 4 2 9	05.06.89	JAPAN	356/338	G01N21/49			X
AM	2 0 8 3 0 5 2	04.27.71	FRANCE	356/343	G01N21/00			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
EXAMINER	AR	—	
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	AS	—	
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EXAMINER <u><i>Prum, H</i></u>	DATE CONSIDERED <u>4/7/98</u>
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				FILING DATE		GROUP 2877			
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
—	AA	5033851	07.23.91	SOMMER	356/358	356/436			
—	AB	5043591	08.27.91	LUNDLOW	250/574	356/343			
—	AC	5055698	10.08.91	BORDEN	250/574	356/339			
—	AD	5084614	01.28.92	BERKNER	250/227.11	356/336			
—	AE	5084629	01.28.92	PETRALLI	250/573	356/343			
—	AF	5085500	02.04.92	BLESENER	356/338	250/574			
—	AG	5121988	08.16.92	BLESENER	356/442	356/335			
—	AH	5127729	07.07.92	OETLIKER	356/338	356/73			
—	AI	5132548	07.21.92	BORDEN	250/574	356/336			
—	AJ	5157678	10.20.92	BORDEN	372/34	372/103			
—	AK	5198369	03.30.93	ITOH	356/38	356/338			
FOREIGN PATENT DOCUMENTS									
		DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
								YES	NO
—	AL	2091410	01.14.72	FRANCE	356/336	G01N15/02			X
—	AM	1807336	04.07.93	RUSSIA	356/336	G01N15/02			X
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
	AR	—							
		—							
	AS	—							
		—							
EXAMINER <i>Thomsett</i>					DATE CONSIDERED 2/7/98				
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				FILING DATE		GROUP 2877	

U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AA	5 2 3 5 6 2 5	08.10.93	STOLTZ	377/10	377/12		
AB	5 2 2 1 2 6 4	12.21.93	CHANAYEM	73/28.01	250/492.2		
AC	5 2 8 2 1 5 1	01.25.94	KNOLLENBERG	364/335	356/336		
AD	5 4 6 7 1 8 8	11.14.95	MIYASHITA	356/336	356/339		
AE	5 4 6 7 1 8 9	11.14.95	KREIKEBAUM	356/336	356/343		
AF	5 4 7 1 2 9 9	11.28.95	KAYE	356/336	356/338		
AG	5 4 9 5 1 0 5	02.27.96	NISHIMURA	250/251	356/39		
AH	5 5 1 5 1 6 4	05.07.96	KREIKEBAUM	356/339	356/246		
AI							
AJ							
AK							

FOREIGN PATENT DOCUMENTS								
	DOCUMENT NUMBER	DATE	COUNTRY	U.S. CLASS	Int. CLASS	National CLASS	TRANSLATION	
							YES	NO
AL	1 8 0 7 3 3 8	04.07.93	RUSSIA	356/336	G01N15/02			X
AM	2 0 2 1 5 8 9	10.15.94	RUSSIA	356/343	G01N21/00			X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
AR	—		
AS	—		

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